

Abstract

Techniques for control word prediction and speculative execution. In one
5 embodiment, an apparatus includes a control word predictor, execution resources, and a
comparison module. The control word predictor of this embodiment predicts a predicted
control word for execution of operations in response to a control word changing
operation. The execution resources of this embodiment speculatively execute the
plurality of operations utilizing the predicted control word, and the comparison module
10 determines if the predicted control word matches an actual control word set by the control
word changing operation or a plurality of other control words, and to cause re-execution
of said plurality of operations if said actual control word matches any of the plurality of
other control words.